

INCH-POUND

MIL-PRF-14409/9F
25 July 2001
SUPERSEDING
MIL-PRF-14409/9F
11 May 1981

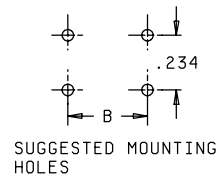
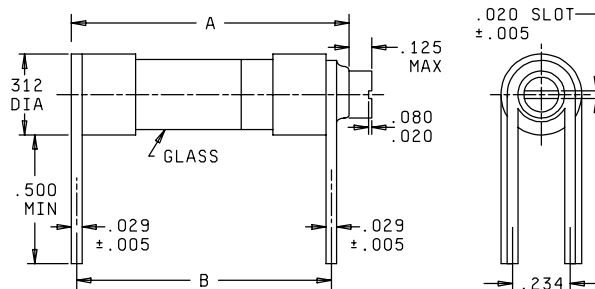
PERFORMANCE SPECIFICATION SHEET

CAPACITORS, VARIABLE (PISTON TYPE,
TUBULAR TRIMMER), STYLE PC43

This specification sheet is approved for use by all Departments
and Agencies of the Department of Defense.

The requirements for acquiring the capacitors described herein shall
consist of this document and the latest issue of specification MIL-PRF-14409.

Inches	mm
.005	0.13
.016	0.41
.020	0.51
.029	0.74
.080	2.03
.125	3.18
.234	5.94
.312	7.92
.500	12.70



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is $\pm .016$.
4. This style capacitor is designed for printed-circuit mounting.

FIGURE 1. Dimensions and configurations.

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REQUIREMENTS:

Dimensions: See figure and table I.

DC voltage rating: 1,000 volts.

Construction: Sealed glass, see figure and table I.

Capacitance range: See table I.

Insulation resistance (IR): Method 302 of MIL-STD-202, test condition B (500 volts ± 10 percent); not less than 1,000,000 megohms at room ambient temperature and not less than 100,000 megohms at 125°C.

Quality factor (Q): See table I.

Temperature cycling: Method 102 of MIL-STD-202, test condition D, except the step 3 temperature shall be 125°C ± 5 °C.

Immersion: Method 104 of MIL-STD-202, test condition A.

Seal test: Applicable.

Rotational life: Capacitance change versus rotation - no reversal greater than 2 percent.

TABLE I. Type designation and characteristics.

Type designation	Capacitance range		Dimensions <u>1/</u>		Q	Temperature coefficient parts/million/°C	Dielectric material
	Min	Max	B \pm .062 (1.157)	A \pm .062 (1.157)			
	pF	pF					
PC43G160	1.0	16.0	.688 (17.48)	.734 (18.64)	750	± 150	Glass
PC43G360	1.0	36.0	.922 (23.42)	.969 (24.61)	550	± 150	Glass
PC43G520	1.0	52.0	1.141 (28.98)	1.188 (30.18)	350	± 150	Glass
PC43G750	1.0	75.0	1.375 (34.93)	1.422 (36.12)	250	± 150	Glass
PC43G121	1.0	120.0	1.984 (50.39)	2.031 (51.59)	250	± 150	Glass
PC43J121	1.0	120.0	1.984 (50.39)	2.031 (51.59)	250	± 50	Glass

1/ Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm. Millimeters are in parentheses.

Custodians:
Army - CR
Navy - EC
Air Force - 11

Preparing activity:
DLA - CC

Review activities:
Navy - AS, MC, OS

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